

Technical Data Sheet

InVivoMAb anti-mouse/human/rat/monkey/hamster/canine/bovine
TGF- β



Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

Lot Specific Information

Lot Number: Lot Specific*
Volume: Lot Specific*
Concentration: Lot Specific* (generally 4 to 11 mg/ml) *
Total Protein: Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number: BE0057
Clone: 1D11.16.8
Isotype: Mouse IgG1, κ
Recommended Isotype Control(s): InVivoMAb mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Bovine TGF β isoform 2
Reported Applications: *in vivo* TGF β neutralization
in vitro TGF β neutralization
Western blot
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: <2EU/mg (<0.002EU/ μ g)
Determined by LAL gel clotting assay
Purity: >95%
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
RRID: [AB_1107757](https://abnova.com/AB_1107757)
Molecular Weight: 150 kDa

Description

The 1D11.16.8 monoclonal antibody reacts with mouse, human, rat, monkey, hamster, canine and bovine TGF- β (transforming growth factor beta) isoforms 1, 2 and 3. TGF- β is a multifunctional cytokine that regulates the proliferation of epithelial cells, endothelial cells, fibroblasts, neurons, lymphoid cells including T lymphocytes and NK cells, and other hematopoietic cell types. TGF- β also regulates the activities of activated macrophages and the development of regulatory T cells. Additionally, TGF- β plays roles in immune function, tissue remodeling and wound repair. TGF- β exists as five highly similar isoforms (TGF- β 1-5) with homologies of 70-80%. TGF- β 1 is synthesized by the enzymatic cleavage of a long precursor TGF- β 1 polypeptide encoded by the TGFB1 gene which yields the mature protein and the Latency Associated Peptide (LAP). The LAP and mature TGF- β 1 non-covalently associate during secretion. TGF- β is ubiquitously expressed by many cell types including macrophages and platelets which express high levels of TGF- β . TGF- β signaling has been shown to play roles in cancer, autoimmune diseases, asthma, heart disease, and diabetes. Its importance is illustrated by TGF- β knockout mice which show defects in hematopoiesis and endothelial differentiation, and die of overwhelming inflammation. The 1D11.16.8 monoclonal antibody is a neutralizing antibody.

Storage

Store at the stock concentration at 4°C. **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

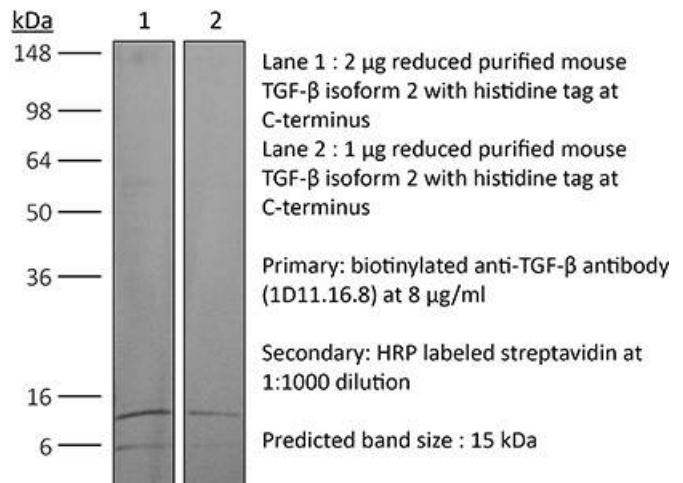
Application References

For a complete list of references, visit https://bioxcell.com/catalogsearch/result?q=BE0057#tab_references or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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